→ OKed recommendations w/addition of sampling the Martin + Fallon bedrock wells. The municipal wells + potentially the Cheese Factory wells to be sampled by NH&N for a pump test of town well. To follow w/ written approval 9/3/96

HOFFER & ASSOCIATES
CONSULTING HYDROGEOLOGISTS

RR 4, Box 2286
Montpelier, VT 05602
(802) 229 - 1113
fax: 229 - 2780

AUG 28 10 14 AM '96
WASTE MANAGEMENT DIVISION

August 26, 1996

Matthew Moran, Site Project Manager
Sites Management Section
VTDEC - Waste Management Division
103 South Main Street/West Office
Waterbury, VT 05671-0404

Re: Site Investigation Report, Lantman's IGA, Hinesburg, Vermont
SMS Site #96-1988

Dear Matt:

This letter presents our report on the site investigation performed at Lantman's IGA in Hinesburg, Vermont. The workplan for this site investigation was presented in our June 11 letter to Carl Ruprecht of S.B. Collins, Inc. The site investigation included the sampling of existing monitoring wells for BTEX/MTBE, surveying of the existing wells, identification of potential sensitive receptors, and an indoor air quality survey of on-site and adjacent buildings. This letter presents the procedures and results of the field efforts, and provides our conclusions and recommendations regarding the site.

Background Information

Three underground storage tanks (USTs) were removed at the site on April 3, 1996. The tanks were owned and maintained by S.B. Collins. Lantman's IGA is owned by Mr. Brian Busier. Hoffer & Associates performed an initial site assessment during the tank closures (see April 4, 1996 letter report from Timothy F. Schmalz to Carl Ruprecht). The three USTs were in good condition, although small quantities of petroleum product were observed floating on groundwater, and screening of excavation soils with a photoionization detector (PID) identified volatile organic compounds up to 1900 parts per million (ppm[1]). Groundwater was observed at about four feet below grade, within silty sands and silty clay lenses. Four groundwater monitoring wells, installed by S.B. Collins, were in use at the site as leak-detection monitoring wells.

General Site Characterization

Lantman's IGA is located on Vermont Route 116 (Main Street) in Hinesburg, Vermont. Site location and vicinity maps are provided as Figures 1 and 2, respectively. The area

[1] Photovac 2020, 10.6 eV lamp, calibrated with and set to respond to isobutylene.

surrounding the site is primarily residential and light commercial. The Lantman's (Busier) property is bordered to the north by the Mead residence, to the east by undeveloped agricultural property and Lyman Park, to the south by Lantman's parking lot and the Animal Hospital of Hinesburg (Greenberg), and to the west by Route 116. Across Route 116 are an antique shop and residence (Walker), a vacant house (Miner), and the Hinesburg Municipal offices.

The nearest surface water bodies are the La Platte River, located approximately 1,500 feet west of the site, and Patrick Brook, a tributary to the La Platte, located about 2,000 feet north of the site. The La Platte flows northwestward, eventually emptying into Shelburne Bay of Lake Champlain. During the windshield survey conducted on July 16, standing water located between the La Platte River and the buildings across Main Street from the site was observed. Whether these wet areas are the result of unusually high rainfall this year or are a permanent feature is uncertain. The locations of the La Platte River and other surface water bodies are indicated on Figure 1.

The surficial geology in the vicinity of the site is mapped as recent stream alluvium along the floodplain of the La Platte River, glacial till on the uplands northeast east of the site, and marine and lacustrine clays and silts on the remaining low land areas (Stewart, 1973). Soils observed during the UST removals were predominantly silty sands with silty clay lenses. Well logs for Hinesburg's municipal wells (see Figure 1) indicate up to 60 feet of "hardpan" and clay. These wells and other nearby wells are completed in bedrock, which is mapped as the Winooski Dolomite (Stewart, 1973).

Review of the State water well database and the windshield survey identified nine supply wells within a 1,000-foot radius of the site. These include three potable and process supply wells at the International Cheese Corporation site, two municipal water supply wells for the town of Hinesburg, and three domestic wells, located on the Giroux, Martin, and Fallon properties. The locations of these wells are indicated on Figure 1. There is a water well located on Lantman's property (see Figure 3), although this well has not been in use for some time due to high levels of sulfur. The well log for Lantman's well was not located. Lantman's and the immediately surrounding properties are connected to the Hinesburg municipal water system.

Site Survey/Basemap Preparation

A site survey was performed in order to prepare a site basemap and to obtain monitoring well elevations. Four monitoring wells were present at the site during the UST closures, however, two of these wells were later destroyed during site renovations unrelated to the UST closures. Figure 3 presents a site basemap illustrating the building location, former UST locations, monitoring well locations and elevations, and other pertinent features.

Groundwater Elevations

Site groundwater levels were measured in MW-1, MW-2, and MW-3 on July 16, 1996. Water levels were also measured on August 2, although MW-2 was inaccessible and apparently destroyed by site excavating activities. An interface probe was utilized to monitor for floating petroleum, although no free product was detected on either occasion. Water levels and converted elevations are given on Table 1. Depths to water in the on-site wells ranged from about 1.5 to 3.5 feet below ground surface. A water-table map for the July 16 data is provided as Figure 4, and depicts a westward groundwater flow direction.

Groundwater Sampling and Analysis

Groundwater samples were collected from the three accessible monitoring wells on July 16, 1996. PID well headspace, total well depth, and liquid level measurements were recorded for each well prior to sampling. The wells were purged of standing water prior to sample collection. Purging and sampling was accomplished with polyethylene bailers. Quality assurance/quality control samples included a trip blank, a field blank, and a blind duplicate. The trip blank was provided by the laboratory and was handled in a similar fashion as the samples. The field blank consisted of two vials filled at site by pouring deionized water into sample vials at the conclusion of sampling activities. A blind duplicate was collected from MW-1 and labeled MW-D on the sample vial and chain-of-custody. The chain-of-custody form and field sampling data sheet are enclosed. The samples were analyzed for benzene, toluene, ethylbenzene, xylenes (BTEX) and methyl-tert-butyl-ether (MTBE) using EPA Method 8020 by Scitest Laboratory Services. The results are presented on Table 2, and the laboratory report sheets are enclosed. Isoconcentration maps for benzene and MTBE have been provided as Figures 5 and 6, respectively.

The analytical results depict a plume of dissolved-phase BTEX and MTBE contamination migrating westward from the site. BTEX constituents and MTBE were detected at relatively high concentrations in all three of the wells, and the Vermont Groundwater Enforcement Standards for benzene (5 ug/L) and xylenes (400 ug/L) were exceeded in all three wells. The highest contaminant concentrations were detected in well MW-3, where concentrations exceeded the enforcement standards for the remaining BTEX compounds and for MTBE. The Vermont Health Advisory for MTBE (40 ug/L) was also exceeded in MW-2.

Indoor Air Quality Screening

To ascertain if site contamination poses a risk to indoor air quality, a PID survey was performed in the properties adjacent to Lantman's IGA on July 16, 1996. The survey was conducted by placing the PID tip over possible points of vapor infiltration (plumbing entrances, cracks, dirt floors, etc.) in the basements in these properties. Properties surveyed included the animal hospital south of the site, the antique shop/Walker residence

across Main Street from the site, the municipal office building, and the Mead residence. There was no answer in the Miner residence, located between the municipal offices and the antique shop, and the property has reportedly been vacant for several years. The basement beneath Lantman's IGA has been surveyed on two occasions, during UST removal activities on April 3, 1996, and on August 2, 1996.

No PID readings above background were obtained in any of the surveyed basements. In addition, discussions with the occupants of the surveyed buildings indicated that there have been no petroleum odors detected in any of these properties.

Potential Receptors

The nearest surface water body is the La Platte river, located approximately 1,500 feet downgradient of the site. In addition, there are areas of standing water (which may be permanent wetlands and a local groundwater discharge zone) between the site and the river. Because the downgradient extent of contamination has not been defined, the threat that the site poses to these receptors is uncertain.

The State water well database and the windshield survey identified nine wells within a 1,000-foot radius of the site, including the out of use well located on the Lantman's property. Of the remaining eight wells, two are Hinesburg municipal wells, three are International Cheese Corporation facility potable and process water wells, and three are domestic supply wells. These wells are all completed in bedrock, through thick overburden layers including lacustrine and marine silt and clay, and glacial till.

A new supply well was recently drilled by the Town of Hinesburg, in the vicinity of the existing town wells. The well log for this well reports 65 feet of "clay, hardpan" overlying bedrock. Nelson, Heindel, & Noyes (NH&N) are implementing a pumping test on the new well, and plan to monitor one of the shallow monitoring wells at Lantman's during the pumping tests.

The threat of site contamination reaching the bedrock aquifer tapped by the supply wells appears relatively low, based on the thickness and relatively low permeability of the overburden. The discharge area for the shallow groundwater zone impacted by dissolved gasoline constituents at the site is likely the La Platte River or the wet areas observed between the site and the river. Horizontal groundwater flow toward these discharge areas likely predominates within the shallow groundwater zone impacted at the site, thus minimizing the likelihood of site contamination reaching the bedrock aquifer. Once the pumping tests on the new Hinesburg well are completed, we will confer with NH&N regarding the hydrogeologic setting and the degree of connection between the bedrock aquifer and overlying shallow groundwater zones.

Conclusions and Recommendations

Sampling of the existing shallow wells at the site indicates there is a plume of dissolved-phase gasoline constituents originating from the former tank area. The shallow water table zone at the site occurs within silty sands and silty clay lenses. Potential receptors include water supply wells, the La Platte River, and a possible wetland (groundwater discharge area) downgradient from the site. The threat of site contamination reaching the bedrock aquifer appears low based on the hydrogeologic setting, although additional data is needed.

An indoor air quality survey did not identify a petroleum vapor migration problem.

Additional investigation is recommended to assess the downgradient extent of groundwater contamination. If the results of the pumping test on the new Hinesburg supply well suggest that site contamination may reach the bedrock aquifer, it may become necessary to install deeper monitoring wells to assess vertical gradients and the vertical extent of contamination. At this point in time, we recommend installing shallow monitoring wells downgradient from the site to assess the horizontal extent of contamination. A replacement well for MW-2 is also needed. Proposed well locations are shown on Figure 7, although these locations may need to be adjusted based on utility clearance and landowner permission. The estimated costs to install four shallow wells at the site, and another round of sampling for BTEX/MTBE, are presented on Table 3.

If you would like to further discuss our conclusions and recommendations, please give us a call.

Sincerely,
HOFFER & ASSOCIATES

Timothy F. Schmalz
Project Geologist

Jefferson P. Hoffer, P.G.
Principal Hydrogeologist

enc.
cc: Carl Ruprecht, S.B. Collins

REFERENCES

Stewart , David P., 1973, *Geology for Environmental Planning in the Burlington-Middlebury Region, Vermont*, Environmental Geology No. 3, Vermont Geological Survey, State of Vermont.

TABLE 1

Groundwater elevation measurements,
Lantman's IGA, Hinesburg, Vermont, SMS Site #96-1988

DEPTH TO WATER MEASUREMENTS
(feet below TOC)

WELL ID	Elev. Ground Surface (feet)	Elev. of TOC (feet)	TOC relative to ground surface	Depth to Water 7/16/96	Depth to Water 8/2/96
MW-1	94.67*	94.37	0.30	1.49	3.56
MW-2	92.01	91.86	0.15	1.09	well destroyed
MW-3	92.78	92.74	0.04	2.01	2.12

GROUNDWATER ELEVATIONS (feet)

WELL ID	Elev. Ground Surface (feet)	Elev. of TOC (feet)	TOC relative to ground surface	Groundwater Elevation, 7/16/96	Groundwater Elevation, 8/2/96
MW-1	94.67*	94.37	0.30	92.88	90.81
MW-2	92.01	91.86	0.15	90.77	wel destroyed
MW-3	92.78	92.74	0.04	90.73	90.62

Notes:
TOC = top of casing (pvc)
Elevations are relative to an on-site benchmark of 100.00 feet
* Estimated elevation based on manway installation, 7/16/96

TABLE 2

Analytical results for groundwater sampling on July 16, 1996,
Lantman's IGA, Hinesburg, Vermont, SMS Site #96-1988

ANALYTICAL RESULTS (ug/L)

WELL ID	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
MW-1/Dup.	26 / 20	85 / 81	< 20 / 12	614 / 639	< 20 / 10
MW-2	273	339	< 20	473	619
MW-3	9270	30200	2720	15400	23200
Field Blank	< 1	< 1	< 1	< 1	< 1
Trip Blank	< 1	< 1	< 1	< 1	< 1

Notes:
< 1 = below a detection level of 1
< 1 / < 1 = sample result / field duplicate result

REGULATORY THRESHOLDS (ug/L)

Standard	Benzene	Toluene	Ethylbenzene	Xylenes	MBTE
VT GES	5	2420	680	400	-
VT PAL	0.5	1210	340	200	-
VHA	1	-	-	-	40
MCL	5	1000	700	10000	-

VT GES = Vermont Groundwater Enforcement Standard
VT PAL = Vermont Preventative Action Limit
VHA = Vermont Health Advisory
MCL = Maximum Contaminant Level

TABLE 3

Cost estimate for installation and sampling of additional wells,
Lantman's IGA, Hinesburg Vermont, SMS Site # 96-1988

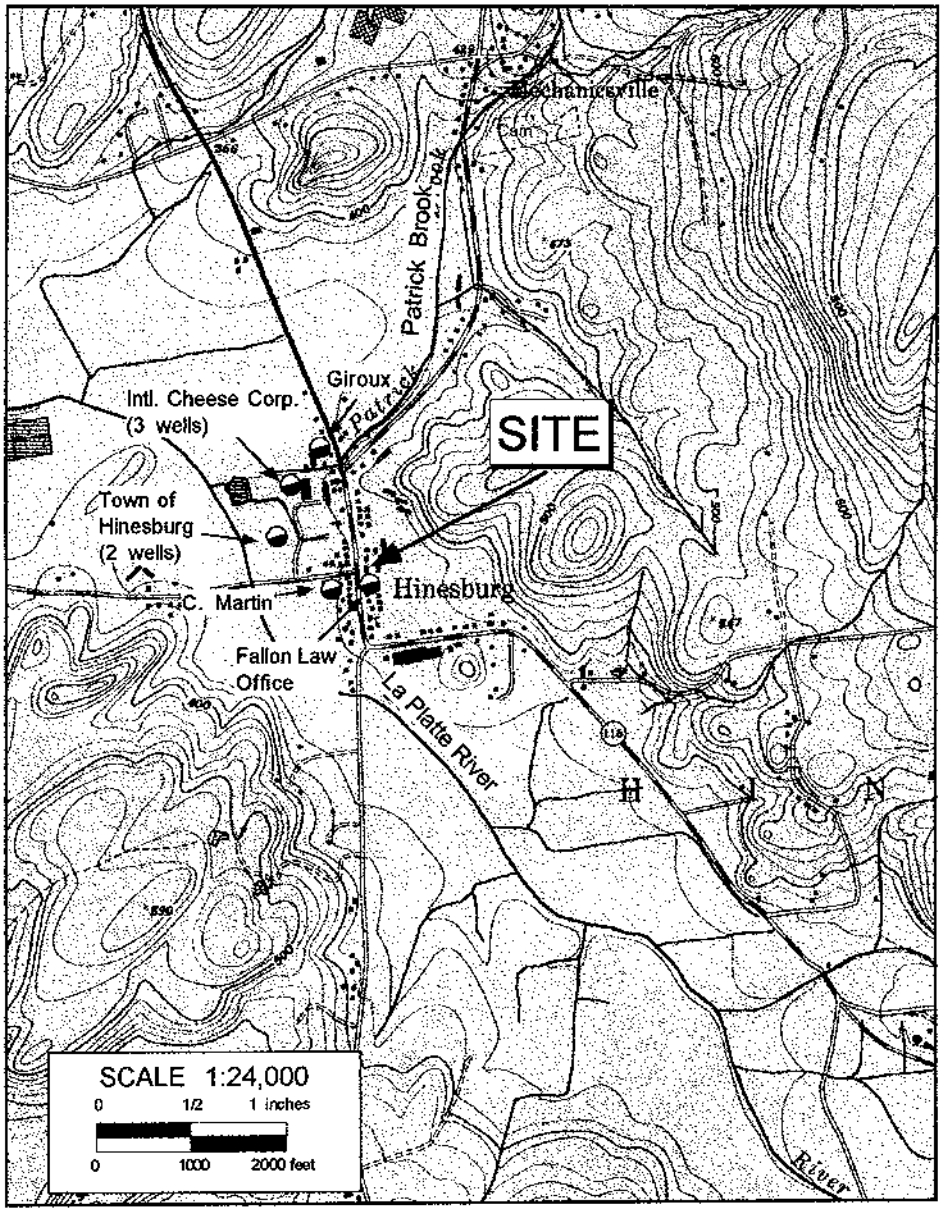
LABOR

TASK	Staff	Hours	Rate	Amount
Monitoring well installation preparation	TFS	3.00	$35.00	$105.00
Monitoring well installation (4 wells)	TFS	12.00	$35.00	$420.00
Groundwater Sampling	TFS	6.00	$35.00	$210.00
Report Preparation	TFS	8.00	$35.00	$280.00
Report Review/Project Management	JPH	2.00	$45.00	$90.00
			SUB-TOTAL LABOR	$1,105.00

EXPENSES

ITEM	Quantity	Rate	Mark Up	Amount
Mileage	250	$0.28	$0.00	$70.00
1.33-inch PVC Bailers	4	$25.00	$0.00	$100.00
PID Rental for MW Installation	1	$75.00	$0.00	$75.00
ADAMS ENGINEERING				
Mobilization	1	$110.00	$0.00	$110.00
Monitoring Well Installations (per well)	4	$250.00	$0.00	$1,000.00
Surveying (labor hours)	2	$45.00	$0.00	$90.00
SCITEST LABORATORY SERVICES				
8020 Analyses for BTEX/MTBE	9	$40.00	$0.00	$360.00
			SUB-TOTAL EXPENSES	$1,445.00

TOTAL ESTIMATED PROJECT COST $2,550.00

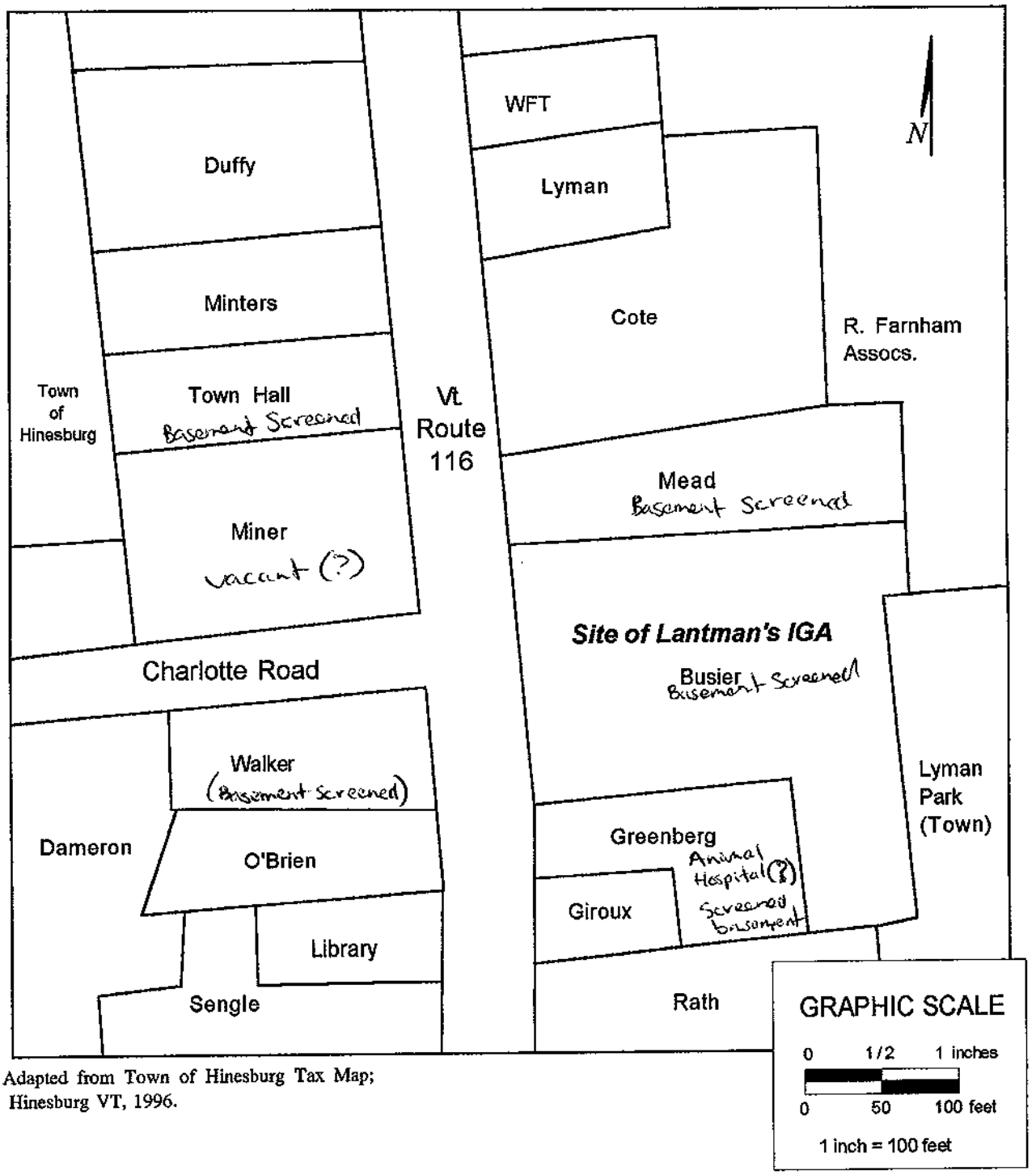


Base from U.S. Geological Survey, 1:24,000; Hinesburg, VT, Photorevised 1987.

Water supply well locations from Water Supply Division database for Hinesburg locations not verified

FIGURE 1

USGS TOPOGRAPHIC MAP SHOWING LOCATION OF LANTMAN'S IGA, HINESBURG, VERMONT, SMS SITE #95-1988.



Adapted from Town of Hinesburg Tax Map; Hinesburg VT, 1996.

FIGURE 2

SITE VICINITY MAP SHOWING LOCATION OF LANTMAN'S IGA AND ADJACENT PROPERTIES, HINESBURG, VERMONT, SMS SITE #95-1988.

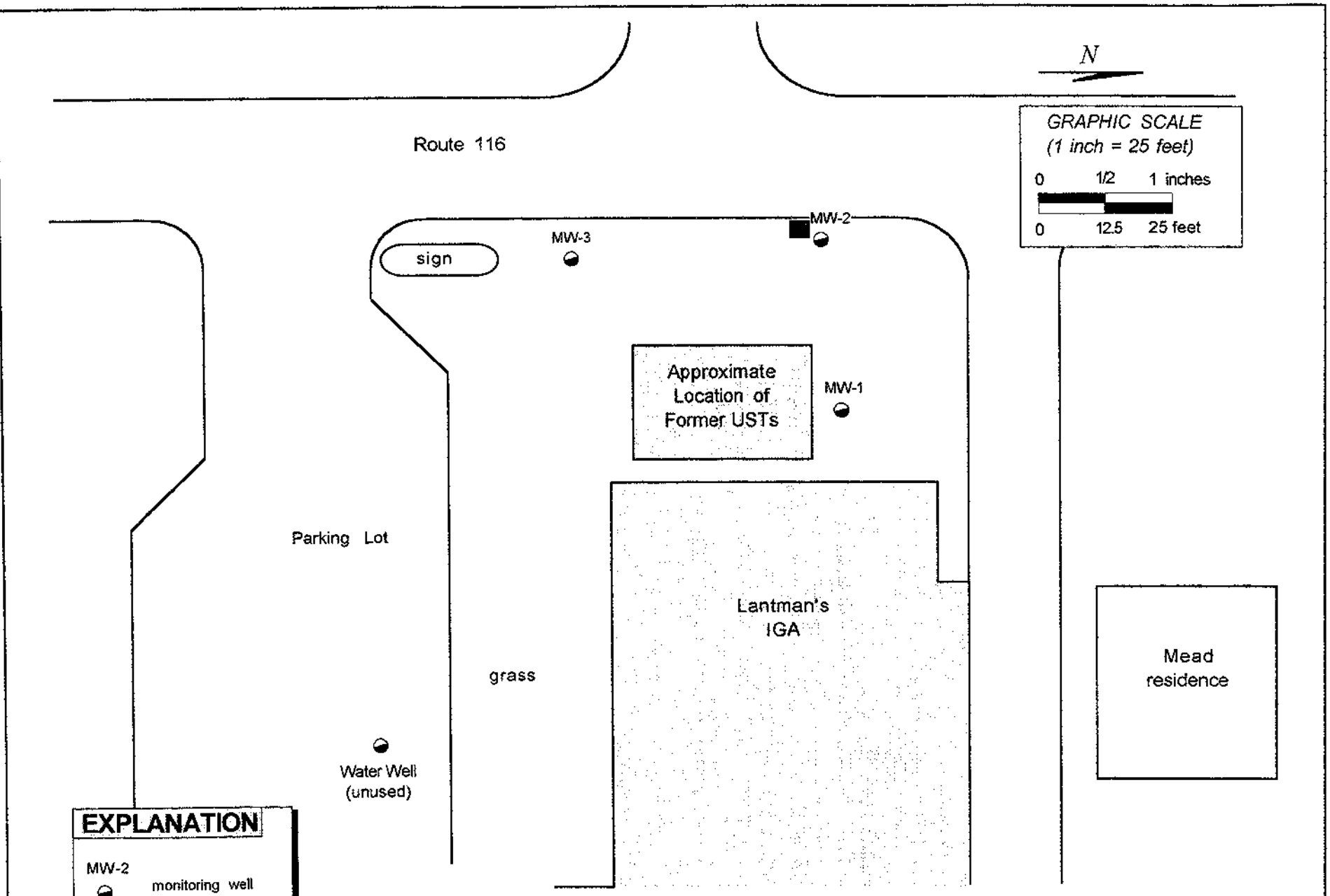


FIGURE 3

SITE BASEMAP, LANTMAN'S IGA,
HINESBURG, VERMONT, SMS SITE #96-1988.

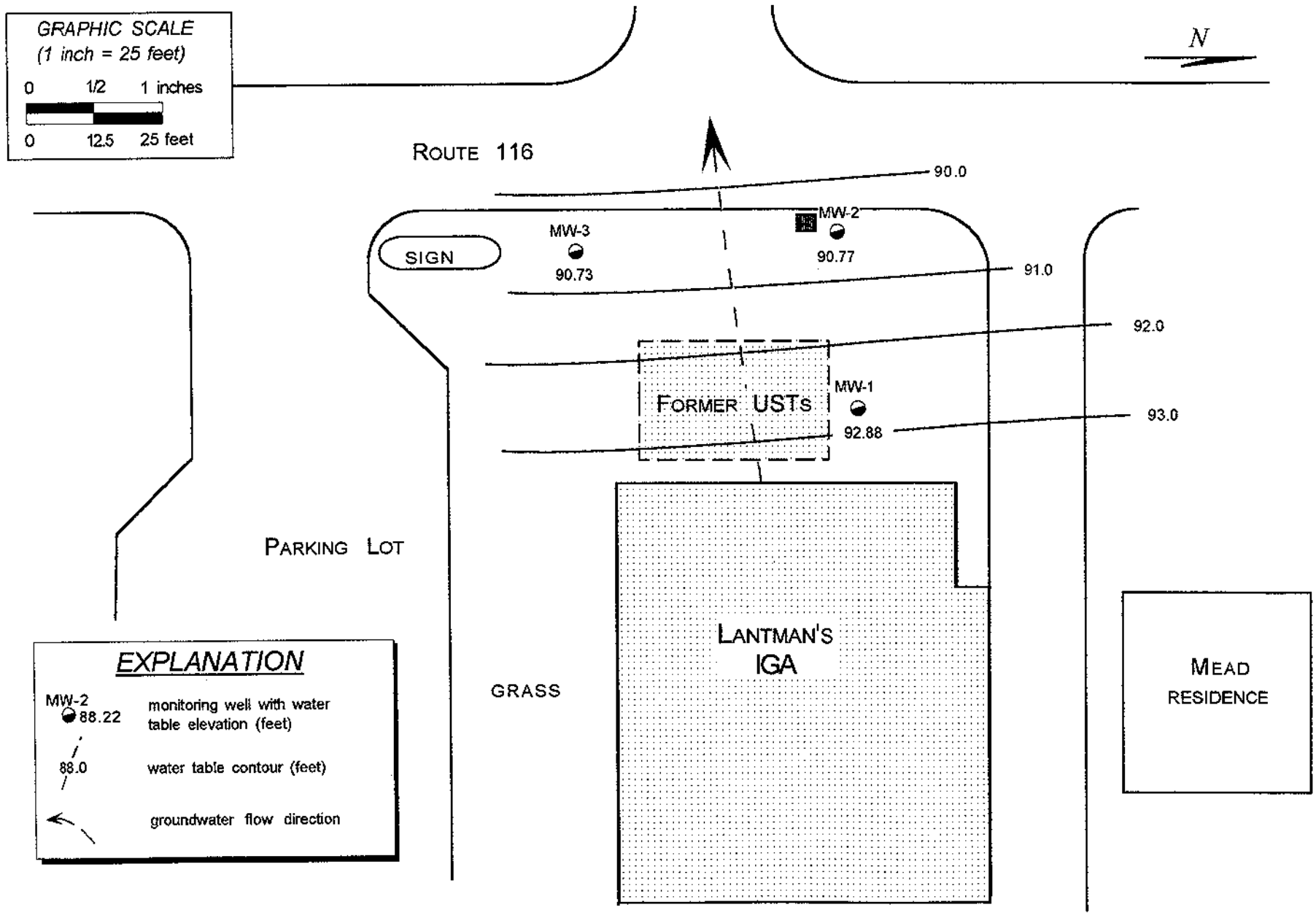


FIGURE 4

GROUNDWATER ELEVATION CONTOUR MAP, JULY 16, 1996,
LANTMAN'S IGA, HINESBURG, VERMONT, SMS SITE #96-1988.

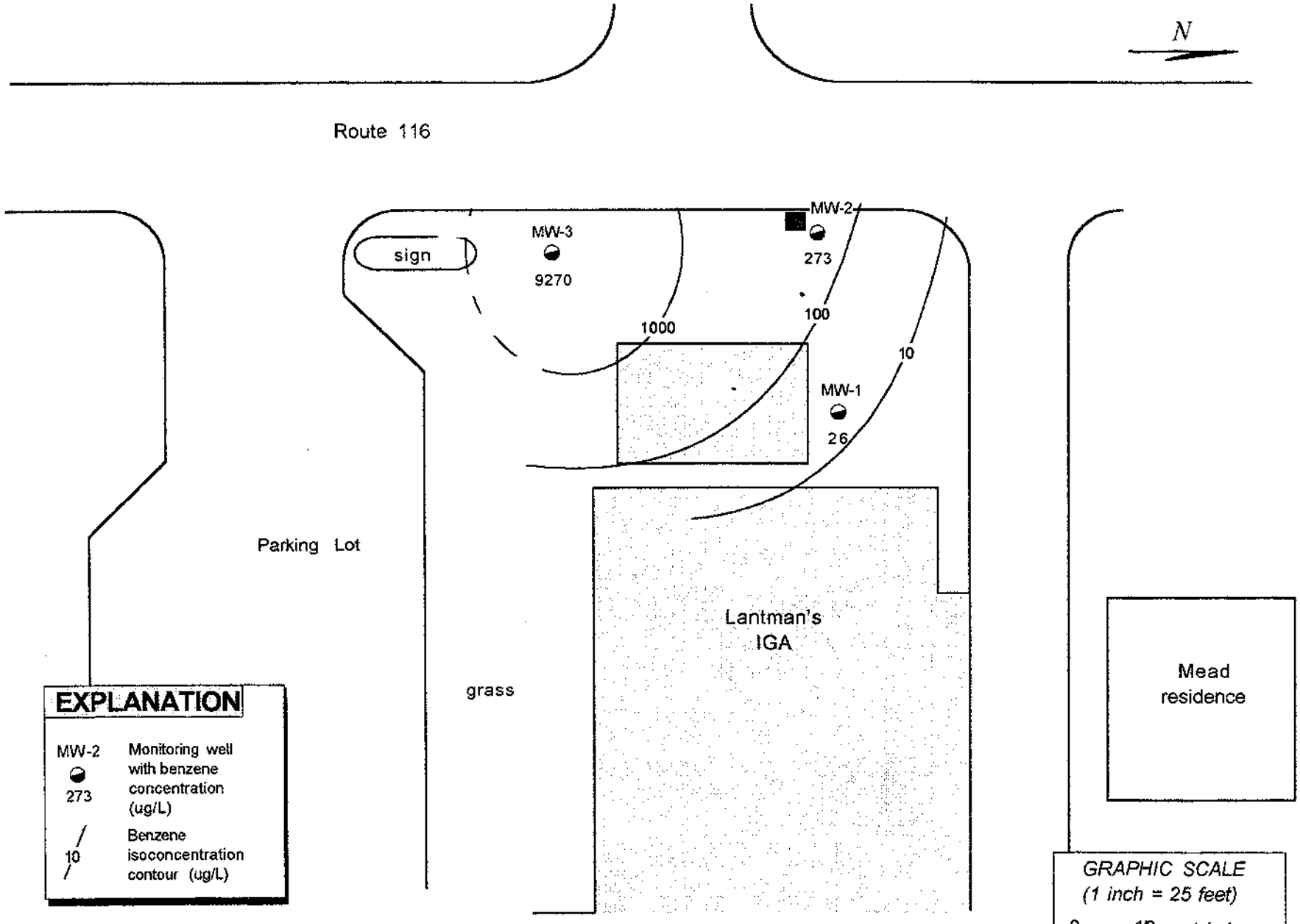


FIGURE 5

BENZENE ISOCONCENTRATION MAP, JULY 16, 1996,
LANTMAN'S IGA, HINESBURG, VERMONT, SMS SITE #96-1988.

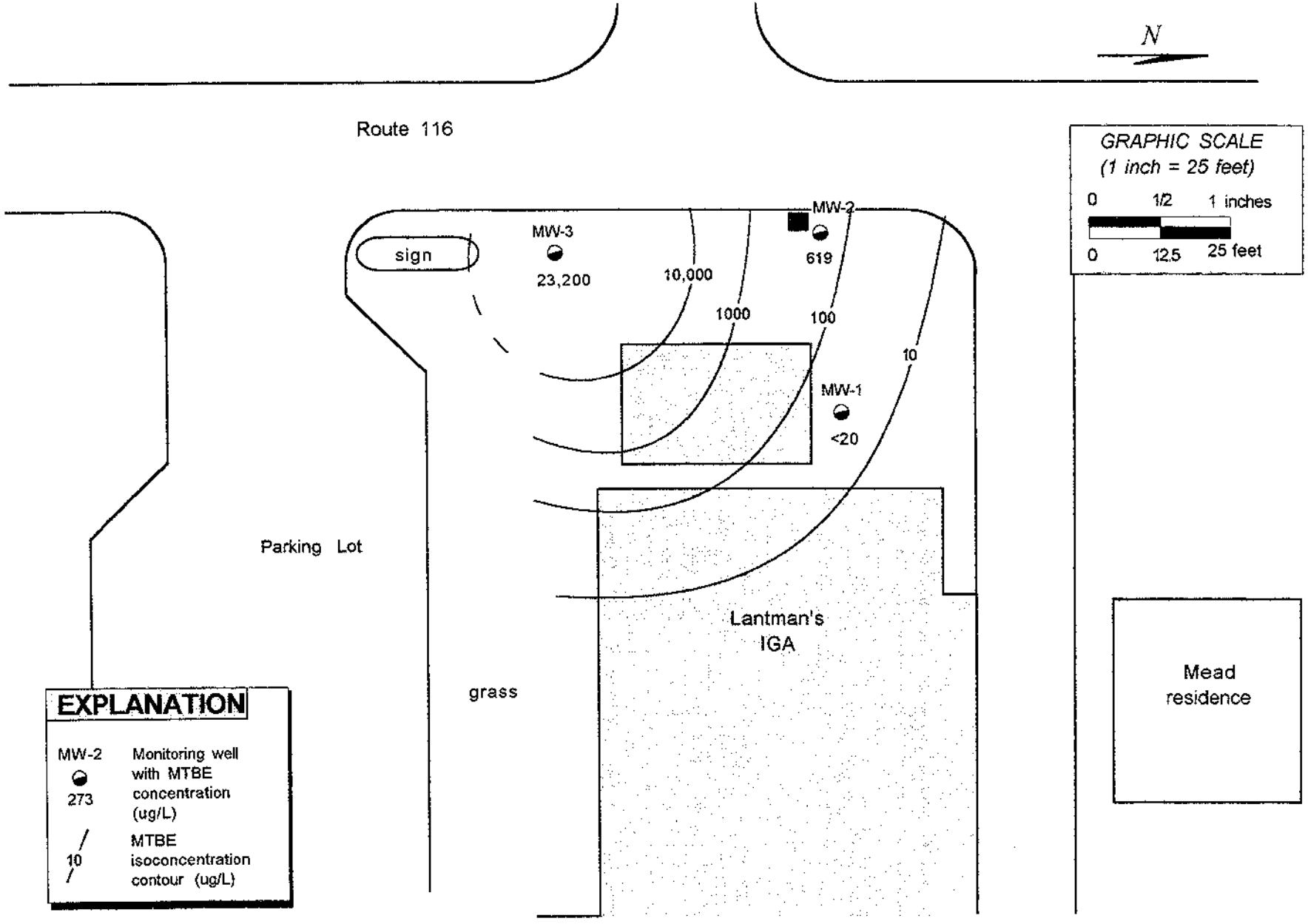


FIGURE 6

MTBE ISOCONCENTRATION MAP, JULY 16, 1996,
LANTMAN'S IGA, HINESBURG, VERMONT, SMS SITE #96-1988.

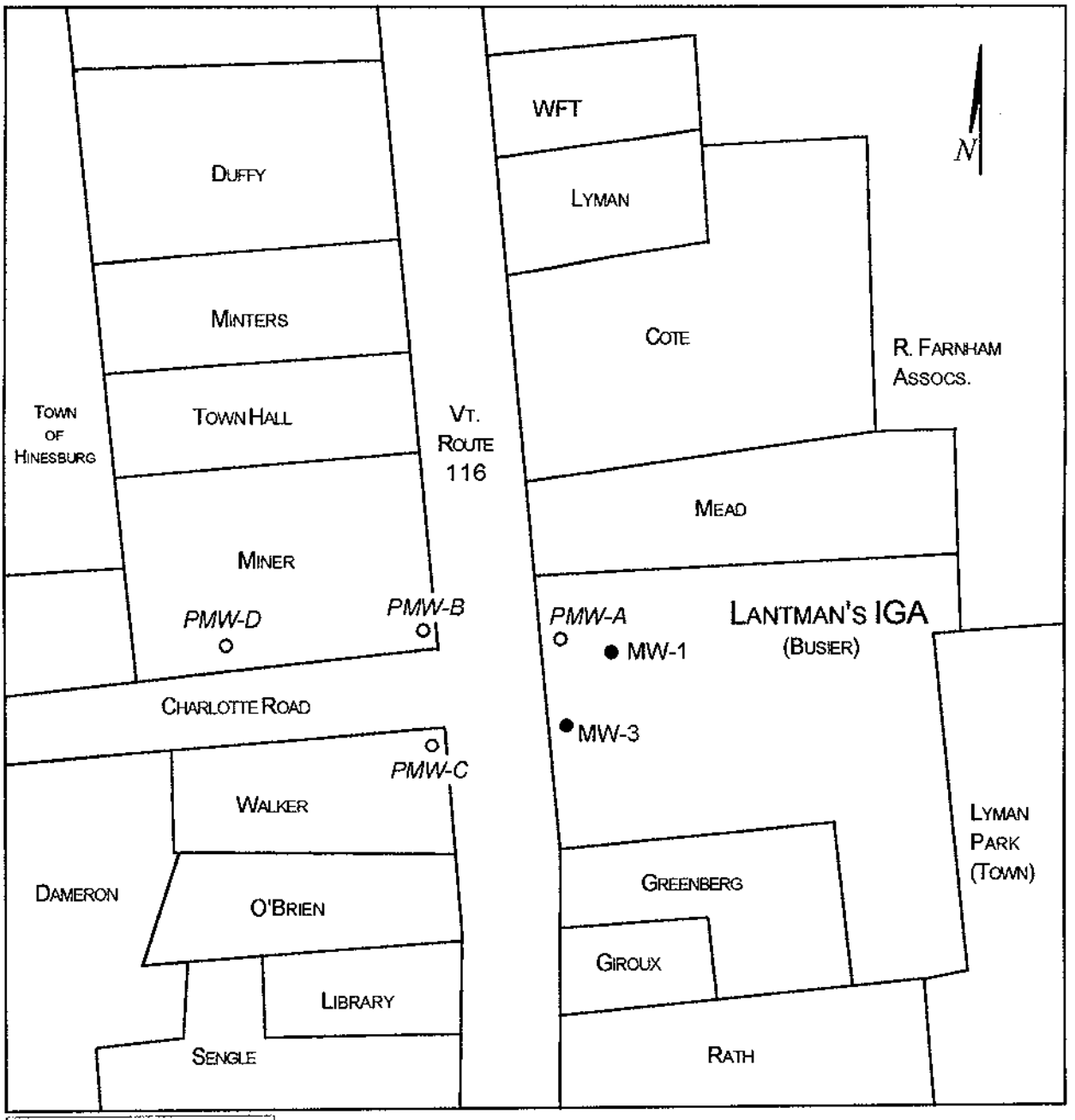


FIGURE 7

PROPOSED MONITORING WELL LOCATIONS,
LANTMANS IGA, HINESBURG, VERMONT, SMS SITE #95-1988.

SCITEST
LABORATORY SERVICES

P.O. Box 339
Randolph, Vermont 05060-0339
(802) 728-6313

ANALYTICAL REPORT

SB Collins, Inc.
54 Lower Welden Street
St. Albans, VT 05478

Work Order No.: 9607-02258

Project Name: Hoffer - IGA
Customer Nos.: 070249

Date Received: 7/17/96
Date Reported: 7/26/96

Sample Desc.: MW - 03
Sample Nos: 1
Sample Date: 7/16/96
Collection Time: 14:45

Test Performed	Method	Results	Units	Analyst	Analysis Date
Aromatic Volatile Organics	EPA 8020			JPM	7/23/96
Methyl Tertiary Butyl Ether	EPA 8020	23200	ug/L	JPM	7/23/96
Benzene	EPA 8020	9270	ug/L	JPM	7/23/96
Toluene	EPA 8020	30200	ug/L	JPM	7/23/96
Ethyl Benzene	EPA 8020	2720	ug/L	JPM	7/23/96
Total Xylenes	EPA 8020	15400	ug/L	JPM	7/23/96
Chlorobenzene	EPA 8020	< 200	ug/L	JPM	7/23/96
1,2-Dichlorobenzene	EPA 8020	< 200	ug/L	JPM	7/23/96
1,3-Dichlorobenzene	EPA 8020	< 200	ug/L	JPM	7/23/96
1,4-Dichlorobenzene	EPA 8020	< 200	ug/L	JPM	7/23/96
Surrogate: 8020				JPM	7/23/96
***Bromofluorobenzene-8020		106	% Recovery	JPM	7/23/96

Sample Desc.: MW - 01
Sample Nos: 2
Sample Date: 7/16/96
Collection Time: 15:00

Test Performed	Method	Results	Units	Analyst	Analysis Date
Aromatic Volatile Organics	EPA 8020			JPM	7/23/96
Methyl Tertiary Butyl Ether	EPA 8020	< 20	ug/L	JPM	7/23/96
Benzene	EPA 8020	26	ug/L	JPM	7/23/96
Toluene	EPA 8020	85	ug/L	JPM	7/23/96
Ethyl Benzene	EPA 8020	< 20	ug/L	JPM	7/23/96
Total Xylenes	EPA 8020	614	ug/L	JPM	7/23/96
Chlorobenzene	EPA 8020	< 20	ug/L	JPM	7/23/96
1,2-Dichlorobenzene	EPA 8020	< 20	ug/L	JPM	7/23/96
1,3-Dichlorobenzene	EPA 8020	< 20	ug/L	JPM	7/23/96
1,4-Dichlorobenzene	EPA 8020	< 20	ug/L	JPM	7/23/96
Surrogate: 8020				JPM	7/23/96
***Bromofluorobenzene-8020		107	% Recovery	JPM	7/23/96

ANALYTICAL REPORT

Project Name: Hoffer - IGA
Project No.: 070249

Work Order No.: 9607-02258

Sample Desc.: MW - 02
Sample Nos: 3
Sample Date: 7/16/96
Collection Time: 15:10

Test Performed	Method	Results	Units	Analyst	Analysis Date
Aromatic Volatile Organics	EPA 8020			JPM	7/23/96
Methyl Tertiary Butyl Ether	EPA 8020	619	ug/L	JPM	7/23/96
Benzene	EPA 8020	273	ug/L	JPM	7/23/96
Toluene	EPA 8020	339	ug/L	JPM	7/23/96
Ethyl Benzene	EPA 8020	< 20	ug/L	JPM	7/23/96
Total Xylenes	EPA 8020	473	ug/L	JPM	7/23/96
Chlorobenzene	EPA 8020	< 20	ug/L	JPM	7/23/96
1,2-Dichlorobenzene	EPA 8020	< 20	ug/L	JPM	7/23/96
1,3-Dichlorobenzene	EPA 8020	< 20	ug/L	JPM	7/23/96
1,4-Dichlorobenzene	EPA 8020	< 20	ug/L	JPM	7/23/96
Surrogate: 8020				JPM	7/23/96
***Bromofluorobenzene-8020		106	% Recovery	JPM	7/23/96

Sample Desc.: MW - D
Sample Nos: 4
Sample Date: 7/16/96
Collection Time: 16:00

Test Performed	Method	Results	Units	Analyst	Analysis Date
Aromatic Volatile Organics	EPA 8020			JPM	7/25/96
Methyl Tertiary Butyl Ether	EPA 8020	10	ug/L	JPM	7/25/96
Benzene	EPA 8020	20	ug/L	JPM	7/25/96
Toluene	EPA 8020	81	ug/L	JPM	7/25/96
Ethyl Benzene	EPA 8020	12	ug/L	JPM	7/25/96
Total Xylenes	EPA 8020	639	ug/L	JPM	7/25/96
Chlorobenzene	EPA 8020	< 5	ug/L	JPM	7/25/96
1,2-Dichlorobenzene	EPA 8020	< 5	ug/L	JPM	7/25/96
1,3-Dichlorobenzene	EPA 8020	< 5	ug/L	JPM	7/25/96
1,4-Dichlorobenzene	EPA 8020	< 5	ug/L	JPM	7/25/96
Surrogate: 8020				JPM	7/25/96
***Bromofluorobenzene-8020		108	% Recovery	JPM	7/25/96

Sample Desc.: FB - 01
Sample Nos: 5
Sample Date: 7/16/96
Collection Time: 16:05

Test Performed	Method	Results	Units	Analyst	Analysis Date
Aromatic Volatile Organics	EPA 8020			JPM	7/23/96
Methyl Tertiary Butyl Ether	EPA 8020	BPQL	ug/L	JPM	7/23/96
Benzene	EPA 8020	BPQL	ug/L	JPM	7/23/96

ANALYTICAL REPORT

Project Name: Hoffer - IGA
Project No.: 070249

Work Order No.: 9607-02258

Sample Desc.: FB - 01
Sample Nos: 5
Sample Date: 7/16/96
Collection Time: 16:05

Test Performed	Method	Results	Units	Analyst	Analysis Date
Toluene	EPA 8020	BPQL	ug/L	JPM	7/23/96
Ethyl Benzene	EPA 8020	BPQL	ug/L	JPM	7/23/96
Total Xylenes	EPA 8020	BPQL	ug/L	JPM	7/23/96
Chlorobenzene	EPA 8020	BPQL	ug/L	JPM	7/23/96
1,2-Dichlorobenzene	EPA 8020	BPQL	ug/L	JPM	7/23/96
1,3-Dichlorobenzene	EPA 8020	BPQL	ug/L	JPM	7/23/96
1,4-Dichlorobenzene	EPA 8020	BPQL	ug/L	JPM	7/23/96
Surrogate: 8020				JPM	7/23/96
***Bromofluorobenzene-8020		106	% Recovery	JPM	7/23/96

Sample Desc.: Trip Blank
Sample Nos: 6
Sample Date: 7/16/96
Collection Time: 12:00

Test Performed	Method	Results	Units	Analyst	Analysis Date
Aromatic Volatile Organics	EPA 8020			JPM	7/23/96
Methyl Tertiary Butyl Ether	EPA 8020	BPQL	ug/L	JPM	7/23/96
Benzene	EPA 8020	BPQL	ug/L	JPM	7/23/96
Toluene	EPA 8020	BPQL	ug/L	JPM	7/23/96
Ethyl Benzene	EPA 8020	BPQL	ug/L	JPM	7/23/96
Total Xylenes	EPA 8020	BPQL	ug/L	JPM	7/23/96
Chlorobenzene	EPA 8020	BPQL	ug/L	JPM	7/23/96
1,2-Dichlorobenzene	EPA 8020	BPQL	ug/L	JPM	7/23/96
1,3-Dichlorobenzene	EPA 8020	BPQL	ug/L	JPM	7/23/96
1,4-Dichlorobenzene	EPA 8020	BPQL	ug/L	JPM	7/23/96
Surrogate: 8020				JPM	7/23/96
***Bromofluorobenzene-8020		106	% Recovery	JPM	7/23/96

BPQL = Below Practical Quantitation Limit; 1 ug/L

c: Hoffer & Associates

SCITEST
LABORATORY SERVICES

ANALYTICAL REPORT

Project Name: Hoffer - IGA
Project No.: 070249

Work Order No.: 9607-02258

Authorized by: Patrick Sweeney

SCITEST
LABORATORY SERVICES

GROUNDWATER SAMPLING DATA SHEET

LOCATION: LANTMAN'S LEA
DATE: APRIL 3, 1996

SAMPLE METHOD: 2" DISPOSABLE BAILERS
SAMPLING TEAM: T. SCHMALZ

WELL ID	PID Head Space (ppm)	Depth to Water (ft)	Total Well Depth (ft)	Water Column (ft)	3 Well Volumes* (gals)	Total Purged (gals)	Sample Time	Sample Type	Chain-of-Custody Number	Chain-of-Custody Time	Remarks
MW-01		1.57	x	x	x	.5	1415	GRAB GW	MW-01G	1415	GRAB GW SAMPLE
MW-02		3.61					1500	↓	MW-02G	1500	↓
MW-03		2.98					1440		MW-03G	1440	
MW-04		2.68					1530		MW-04G	1530	↓, SHEEN (FP?)
EXCAVATION						→	1300	↓	GS-01	1300	FP. ON GW ENTERING EXCAVATION

* *(1.5" = 0.092 gals/ft, 2" = 0.16 gals/ft, 4" = 0.65 gals/ft, 6"=1.5 gals/ft)*

REMARKS _____

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Scitest, Inc.
P.O. Box 339
Route 66 Professional Center, Randolph, VT 05060
Phone: (802)728-6313 Fax: (802)728-6044

Client: Hoffer & Assoc Address: _____ Project # _____

Contact: Tim Schmalz _____ Phone No: _____

Site: Lanthian's IGA

CHAIN OF CUSTODY	DATE	TIME	Additional Comments or Directions:
Sampled By: [signature]	4/3/96		BILL TO SB COLLINS
Relinquished By: [signature]	4/3/96	1645	
Received by Scitest: [signature]	11/3/96	16:45	

Item Nos	Client ID or Description	Sampling Date/Time	Matrix	Preserve/ Label	Bottle Type	Reqd. Volume	Bottles/ Sample	Parameters and Holding Times: ASAP / 24 hrs / 48 hrs / 7days / >7days
1	GS-01	4/3 1300	GW	8020			2	
2	MW-01G	1415					2	
3	MW-03-G	1440					2	
4	MW-02G	1500					2	
5	MW-04G	1530					1	

w:\requests\

Preserve Check/Sample Condition:

LABORATORY NUMBER:

LOGIN: